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NEWS 4 May 19 PROUSDDR: One FREE connect hour, per account, in both May
and June 2004
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NEWS 6 May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS 7 May 17 FRFULL now available on STN
NEWS 8 May 27 New UPM (Update Code Maximum) field for more efficient patent
SDIs in Cplus
NEWS 9 May 27 Cplus super roles and document types searchable in REGISTRY
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NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:00:24 ON 28 JUN 2004

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:00:29 ON 28 JUN 2004

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 JUN 2004 HIGHEST RN 700346-78-7
DICTIONARY FILE UPDATES: 27 JUN 2004 HIGHEST RN 700346-78-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> e hexane diol neopenyl glycol adipic acid polyester diol/cn
E1      1      HEXANE 1,6-BIS(N,N-DIMETHYL-N-(3'-PHENYLPROPYL)AMMONIUM)DIIO
        DIDE/CN
E2      1      HEXANE 1,6-DIISOCYANATE/CN
E3      0 --> HEXANE DIOL NEOPENYL GLYCOL ADIPIC ACID POLYESTER DIOL/CN
E4      1      HEXANE POLYMER/CN
E5      1      HEXANE RADICAL CATION/CN
E6      1      HEXANE(DISELENOIC) ACID, METHYL ESTER/CN
E7      1      HEXANE(DITHIOIC) ACID/CN
E8      1      HEXANE(DITHIOIC) ACID, 2,2,3-TRIMETHYL-5-OXO-, METHYL ESTER/
        CN
E9      1      HEXANE(DITHIOIC) ACID, 2,3-DIMETHYL-5-OXO-, (2,4,6-TRIMETHYL
        PHENYL)METHYL ESTER, (R*,R*)-/CN
E10     1      HEXANE(DITHIOIC) ACID, 2,3-DIMETHYL-5-OXO-, (2,4,6-TRIMETHYL
        PHENYL)METHYL ESTER, (R*,S*)-/CN
E11     1      HEXANE(DITHIOIC) ACID, 2,3-DIMETHYL-5-OXO-, 2-(DIMETHYLAMINO
        )ETHYL ESTER, (R*,R*)-/CN
E12     1      HEXANE(DITHIOIC) ACID, 2,3-DIMETHYL-5-OXO-, 2-(DIMETHYLAMINO
        )ETHYL ESTER, (R*,S*)-/CN
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```
=> e piothane 67-3000 hna/cn
E1      1      PIOTHANE 50-1000PMA/CN
E2      1      PIOTHANE 67-1000HNA/CN
E3      0 --> PIOTHANE 67-3000 HNA/CN
E4      1      PIOTHANE 67-3000HNA/CN
E5      1      PIOXOL/CN
E6      1      PIOZID/CN
E7      4      PIP/CN
E8      1      PIP (DENTAL MATERIAL)/CN
E9      1      PIP (POLYISOPRENE)/CN
E10     1      PIP (POLYOL)/CN
E11     1      PIP (POLYOL), POLYMER WITH 1,3-BENZENEDICARBOXYLIC ACID, 1,3
        -DIHYDRO-1,3-DIOXO-5-ISOBENZOFURANCARBOXYLIC ACID, 2,2-DIMET
        HYL-1,3-PROPANEDIOL, 2-ETHYL-2-(HYDROXYMETHYL)-1,3-PROPANEDI
        OL, HEXANEDIOIC ACID/CN
E12     1      PIP (POLYOL), POLYMER WITH ISONATE 125M/CN
```

=> s e4

L1 1 "PIOTHANE 67-3000HNA"/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 25214-14-6 REGISTRY
CN Hexanedioic acid, polymer with 2,2-dimethyl-1,3-propanediol and

1,6-hexanediol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Propanediol, 2,2-dimethyl-, polyester with adipic acid and 1,6-hexanediol (8CI)

CN 1,3-Propanediol, 2,2-dimethyl-, polymer with hexanedioic acid and 1,6-hexanediol (9CI)

CN 1,6-Hexanediol, polyester with adipic acid and 2,2-dimethyl-1,3-propanediol (8CI)

CN 1,6-Hexanediol, polymer with 2,2-dimethyl-1,3-propanediol and hexanedioic acid (9CI)

CN Adipic acid, polyester with 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol (8CI)

OTHER NAMES:

CN Adipic acid-1,6-hexanediol-neopentyl glycol copolymer

CN Adipic acid-1,6-hexanediol-neopentyl glycol polymer

CN Adipic acid-2,2-dimethyl-1,3-propanediol-1,6-hexanediol copolymer

CN Adipic acid-hexamethylene glycol-neopentyl glycol copolymer

CN Adipic acid-hexamethylene glycol-neopentyl glycol polymer

CN Desmophen 2028

CN Fomrez E 65-56

CN Inolex 1400-120

CN Lexorez 1400-120

CN Lexorez 1400-120P

CN N 4070

CN Neopentyl glycol-adipic acid-1,6-hexanediol copolymer

CN Neopentyl glycol-adipic acid-hexanediol polyester

CN Nippollan 4070

CN Nippollan N 4070

CN OD-X 688

CN PE 170HN

CN Piothane 67-1000HNA

CN **Piothane 67-3000HNA**

CN Polylyte OD-X 688

CN Ruco S 1015-120

CN Rucoflex 1015-100

CN Rucoflex 1015-120

CN Rucoflex S 1015-120

CN TA 22-221

CN Teslac 2455

DR 135669-09-9, 82785-46-4, 110737-13-8, 318951-91-6

MF (C6 H14 O2 . C6 H10 O4 . C5 H12 O2)x

CI PMS, COM

PCT Polyester, Polyester formed

LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, TOXCENTER, USPAT2, USPATFULL

Other Sources: DSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); PRP (Properties); RACT (Reactant or reagent)

RLD.NP Roles for non-specific derivatives from non-patents: USES (Uses)

CM 1

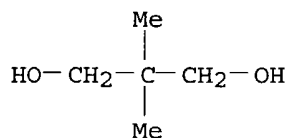
CRN 629-11-8

CMF C6 H14 O2

HO-(CH₂)₆-OH

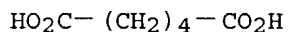
CM 2

CRN 126-30-7
CMF C5 H12 O2



CM 3

CRN 124-04-9
CMF C6 H10 O4



84 REFERENCES IN FILE CA (1907 TO DATE)
48 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
84 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e rucoflex s1015-35/cn

E1	1	RUCOFLEX S 108-46/CN
E2	1	RUCOFLEX S 2011-35/CN
E3	0 -->	RUCOFLEX S1015-35/CN
E4	1	RUCOFLEX TG 8/CN
E5	1	RUCOFLEX XA 630M/CN
E6	1	RUCOFLEX XF 4910-2/CN
E7	1	RUCOFLEX XF 4910-2, POLYMER WITH DESMODUR N 100/CN
E8	1	RUCOFLEX XF 5604-210/CN
E9	1	RUCOFLEX XF 5604-210, POLYMER WITH AIRTHANE PPT 65L AND RUCOFLEX XF 5752-65/CN
E10	1	RUCOFLEX XF 5752-65/CN
E11	1	RUCOFLEX XF 5752-65, POLYMER WITH AIRTHANE PPT 65L AND RUCOFLEX XF 5604-210/CN
E12	1	RUCOFLEX XF 6178-50/CN

=> e polyethylene terephthalate polyol/cn

E1	1	POLYETHYLENE SORBITOL/CN
E2	1	POLYETHYLENE SYNTHETIC FIBERS/CN
E3	0 -->	POLYETHYLENE TEREPHTHALATE POLYOL/CN
E4	1	POLYETHYLENE TEREPHTHALATE-HEXAFLUOROPROPENE POLYMER/CN
E5	1	POLYETHYLENE TEREPHTHALATE-ISOPHTHALATE COPOLYMER/CN
E6	1	POLYETHYLENE TEREPHTHALATE-NEOPENTYL GLYCOL COPOLYMER/CN
E7	1	POLYETHYLENE TEREPHTHALATE-POLYETHYLENE GLYCOL COPOLYMER/CN
E8	1	POLYETHYLENE TEREPHTHALATE-POLYETHYLENE ISOPHTHALATE COPOLYMER/CN
E9	1	POLYETHYLENE TEREPHTHALATE-POLYTETRAMETHYLENE GLYCOL COPOLYMER/CN
E10	1	POLYETHYLENE TEREPHTHALATE-STYRENE POLYMER/CN
E11	1	POLYETHYLENE(2) STEARYL ETHER/CN
E12	1	POLYETHYLENE(2.2)-2,2-BIS(4-HYDROXYPHENYL)PROPANE-POLYPROPYLENE(2.2)-2,2-BIS(4-HYDROXYPHENYL)PROPANE-TEREPHTHALIC ACID COPOLYMER/CN

=> s e7

L2 1 "POLYETHYLENE TEREPHTHALATE-POLYETHYLENE GLYCOL COPOLYMER"/CN

=> d

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 9016-88-0 REGISTRY

CN 1,4-Benzenedicarboxylic acid, polymer with 1,2-ethanediol and
 α -hydro- ω -hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX
NAME)

OTHER CA INDEX NAMES:

CN 1,2-Ethanediol, polymer with 1,4-benzenedicarboxylic acid and
 α -hydro- ω -hydroxypoly(oxy-1,2-ethanediyl) (9CI)

CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, polymer with
1,4-benzenedicarboxylic acid and 1,2-ethanediol (9CI)

CN Terephthalic acid, polyester with ethylene glycol and polyethylene glycol
(8CI)

OTHER NAMES:

CN Ethylene glycol-polyethylene glycol-terephthalic acid copolymer

CN Ethylene glycol-polyethylene glycol-terephthalic acid polymer

CN Ethylene glycol-terephthalic acid-polyethylene glycol copolymer

CN Ethylene terephthalate-poly(oxyethylene) glycol copolymer

CN Glicopol TR

CN Kurapet KD 265E

CN Milease TL

CN Permalose T

CN Permalose TM

CN Poly(ethylene terephthalate)-polyethylene glycol copolymer

CN Poly(oxyethylene)-ethylene terephthalate copolymer

CN Polyethylene glycol-ethylene glycol-terephthalic acid copolymer

CN Polyethylene glycol-ethylene glycol-terephthalic acid polymer

CN Polyethylene glycol-ethylene terephthalate copolymer

CN Polyethylene glycol-poly(ethylene terephthalate) polymer

CN **Polyethylene terephthalate-polyethylene glycol copolymer**

CN Repel-O-Tex QCJ

CN Velvetol 251C

CN Zelcon 4780

CN Zelcon PGA

DR 37282-11-4, 73612-93-8, 82030-88-4, 39468-07-0

MF (C8 H6 O4 . C2 H6 O2 . (C2 H4 O)n H2 O)x

CI PMS, COM

PCT Polyester, Polyester formed, Polyether

LC STN Files: CA, CAPLUS, CHEMLIST, CIN, IFICDB, IFIPAT, IFIUDB, PROMT,
TOXCENTER, USPATFULL

Other Sources: DSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: PREP (Preparation);
PROC (Process); PRP (Properties); USES (Uses)

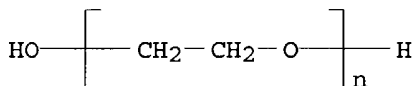
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);
PROC (Process); PRP (Properties); USES (Uses); NORL (No role in record)

CM 1

CRN 25322-68-3

CMF (C2 H4 O)n H2 O

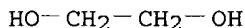
CCI PMS



CM 2

CRN 107-21-1

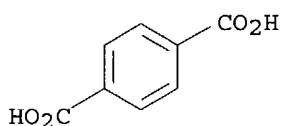
CMF C2 H6 O2



CM 3

CRN 100-21-0

CMF C8 H6 O4



435 REFERENCES IN FILE CA (1907 TO DATE)

8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

435 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e dimethylolpropanoic acid/cn

E1	1	DIMETHYLOLPROPANE-ETHYLENE GLYCOL-TEREPHTHALIC ACID-TRIMELLITIC ANHYDRIDE POLYMER/CN
E2	1	DIMETHYLOLPROPANE-TEREPHTHALIC ACID COPOLYMER/CN
E3	0 -->	DIMETHYLOLPROPANOIC ACID/CN
E4	1	DIMETHYLOLPROPANOIC ACID-12-HYDROXYSTEARIC ACID-METHYL METHACRYLATE POLYMER/CN
E5	1	DIMETHYLOLPROPANOIC ACID-DIPHENYLMETHANE 4,4'-DIISOCYANATE-TRIMETHYLOLPROPANE COPOLYMER/CN
E6	1	DIMETHYLOLPROPANOIC ACID-HEXAMETHYLENE DIISOCYANATE-TRIMETHYLOLPROPANE COPOLYMER/CN
E7	1	DIMETHYLOLPROPANOIC ACID-POLYTETRAHYDROFURANDIOL-TETRAMETHYLBENZENE DIISOCYANATE BLOCK COPOLYMER/CN
E8	1	DIMETHYLOLPROPANOIC ACID-DIMETHYL TEREPHTHALATE-ETHYLENE GLYCOL-1,6-HEXANEDIOL-NEOPENTYL GLYCOL-PHTHALIC ANHYDRIDE COPOLYMER DIMETHYLETHANOLAMINE SALT/CN
E9	1	DIMETHYLOLPROPIONIC ACID/CN
E10	1	DIMETHYLOLPROPIONIC ACID DIMETHYLAMINE SALT-ETHYLENEDIAMINE-POLYETHYLENE GLYCOL-TDI COPOLYMER/CN
E11	1	DIMETHYLOLPROPIONIC ACID HOMOPOLYMER/CN
E12	1	DIMETHYLOLPROPIONIC ACID HOMOPOLYMER PROPIONATE/CN

=> s e2

L3 1 "DIMETHYLOLPROPANE-TEREPHTHALIC ACID COPOLYMER"/CN

=> d

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 26590-78-3 REGISTRY

CN 1,4-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,3-propanediol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Propanediol, 2,2-dimethyl-, polyester with terephthalic acid (8CI)

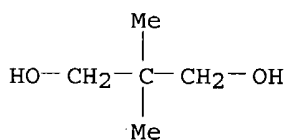
CN 1,3-Propanediol, 2,2-dimethyl-, polymer with 1,4-benzenedicarboxylic acid (9CI)

CN Terephthalic acid, polyester with 2,2-dimethyl-1,3-propanediol (8CI)
 OTHER NAMES:
 CN 2,2-Dimethyl-1,3-propanediol-terephthalic acid copolymer
 CN Alpolit UP 378STE
 CN **Dimethylolpropane-terephthalic acid copolymer**
 CN Neopentyl glycol-terephthalic acid copolymer
 CN Neopentyl glycol-terephthalic acid polymer
 CN Poly(2,2-dimethyltrimethylene terephthalate)
 MF (C8 H6 O4 . C5 H12 O2)x
 CI PMS, COM
 PCT Polyester, Polyester formed
 LC STN Files: CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL
 Other Sources: DSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Conference; Journal; Patent
 RL.P Roles from patents: PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: PREP (Preparation); PRP (Properties); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation); RACT (Reactant or reagent)

****RELATED POLYMERS AVAILABLE WITH POLYLINK****

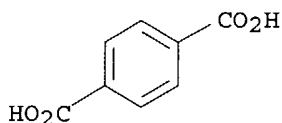
CM 1

CRN 126-30-7
 CMF C5 H12 O2



CM 2

CRN 100-21-0
 CMF C8 H6 O4



79 REFERENCES IN FILE CA (1907 TO DATE)
 7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 79 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e fumaric acid/cn

E1 1 FUMARATOCHROMIUM(III) NITRATE/CN
 E2 1 FUMARIA OFFICINALIS, EXT./CN
 E3 1 --> FUMARIC ACID/CN
 E4 1 FUMARIC ACID (?), BIS(2,2-DINITROPROPYL) ESTER/CN

E5	1	FUMARIC ACID 1,6-HEXANEDIOL POLYMER, SRU/CN
E6	1	FUMARIC ACID 1:1 COMPLEX WITH (DIETHYLAMINO)ETHYL METHACRYLA TE/CN
E7	1	FUMARIC ACID 3:1 COMPLEX WITH TRIETHANOLAMINE TRIMETHACRYLAT E/CN
E8	1	FUMARIC ACID BENZYL ESTER CHLORIDE/CN
E9	1	FUMARIC ACID BIS(2',4',6'-TRIIODO-3-CARBOXANILIDE)/CN
E10	1	FUMARIC ACID BIS(2-BUTYLCYCLOHEXYLIDENE HYDRAZIDE)/CN
E11	1	FUMARIC ACID BIS(3,4-DIHYDROXYANILIDE)/CN
E12	1	FUMARIC ACID BIS(3,4-DIHYDROXYBENZYLAMIDE)/CN

=> s e3

L4 1 "FUMARIC ACID"/CN

=> d

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 110-17-8 REGISTRY

CN 2-Butenedioic acid (2E)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Butenedioic acid (E)-

CN **Fumaric acid (8CI)**

OTHER NAMES:

CN (2E)-But-2-enedioic acid

CN (E)-2-Butenedioic acid

CN 2-(E)-Butenedioic acid

CN 2-Butenedioic acid, (E)-

CN Allomaleic acid

CN Boletic acid

CN FC 33

CN FC 33 (acid)

CN Lichenic acid

CN NSC 2752

CN trans-1,2-Ethylenedicarboxylic acid

CN trans-2-Butenedioic acid

CN trans-Butenedioic acid

FS STEREOSEARCH

DR 623158-97-4

MF C4 H4 O4

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Report

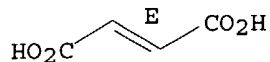
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11562 REFERENCES IN FILE CA (1907 TO DATE)
1474 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
11577 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>

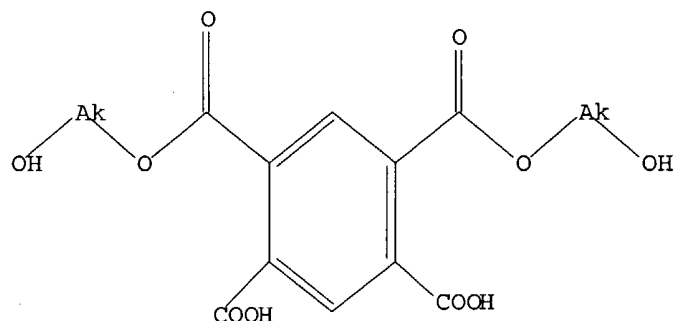
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L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 12:11:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 207 TO ITERATE

100.0% PROCESSED 207 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 3277 TO 5003
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 12:11:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4582 TO ITERATE

100.0% PROCESSED 4582 ITERATIONS
SEARCH TIME: 00.00.01

11 ANSWERS

L7 11 SEA SSS FUL L5

=> d

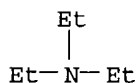
L7 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2004 ACS on STN
RN 354806-40-9 REGISTRY
CN Hexanedioic acid, polymer with 1,4-butanediol, α,α' -[(4,6-dicarboxy-1,3-phenylene)dicarbonyl]bis[ω -hydroxypoly(oxy-1,2-ethanediyl)] and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, compd. with N,N-diethylethanamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,4-Butanediol, polymer with α,α' -[(4,6-dicarboxy-1,3-phenylene)dicarbonyl]bis[ω -hydroxypoly(oxy-1,2-ethanediyl)], hexanedioic acid and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, compd. with N,N-diethylethanamine (9CI)
CN Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, polymer with 1,4-butanediol, α,α' -[(4,6-dicarboxy-1,3-phenylene)dicarbonyl]bis[ω -hydroxypoly(oxy-1,2-ethanediyl)] and hexanedioic acid, compd. with N,N-diethylethanamine (9CI)
CN Poly(oxy-1,2-ethanediyl), α,α' -[(4,6-dicarboxy-1,3-phenylene)dicarbonyl]bis[ω -hydroxy-, polymer with 1,4-butanediol, hexanedioic acid and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, compd. with N,N-diethylethanamine (9CI)
MF (C12 H18 N2 O2 . C6 H10 O4 . C4 H10 O2 . (C2 H4 O)n (C2 H4 O)n C10 H6 O8)x . x C6 H15 N
PCT Polyester, Polyester formed, Polyether, Polyurethane, Polyurethane formed
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

CM 1

CRN 121-44-8
CMF C6 H15 N

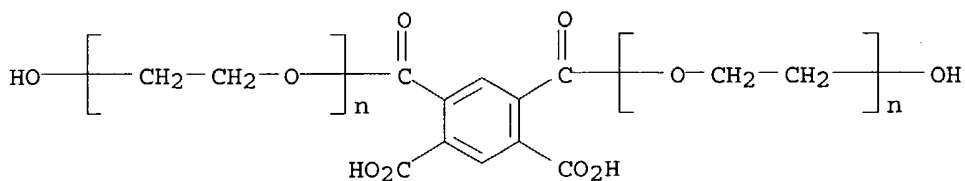


CM 2

CRN 354806-39-6
CMF (C12 H18 N2 O2 . C6 H10 O4 . C4 H10 O2 . (C2 H4 O)n (C2 H4 O)n C10 H6 O8)x
CCI PMS

CM 3

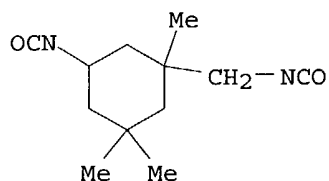
CRN 327159-82-0
CMF (C2 H4 O)n (C2 H4 O)n C10 H6 O8
CCI PMS



CM 4

CRN 4098-71-9

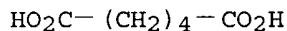
CMF C12 H18 N2 O2



CM 5

CRN 124-04-9

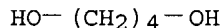
CMF C6 H10 O4



CM 6

CRN 110-63-4

CMF C4 H10 O2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> 2

2 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> d 2

L7 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2004 ACS on STN

RN 354806-39-6 REGISTRY

CN Hexanedioic acid, polymer with 1,4-butanediol, α,α' -[(4,6-dicarboxy-1,3-phenylene)dicarbonyl]bis[ω -hydroxypoly(oxy-1,2-ethanediyl)] and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

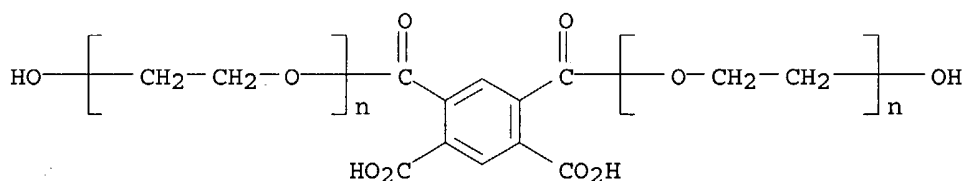
CN 1,4-Butanediol, polymer with α,α' -[(4,6-dicarboxy-1,3-phenylene)dicarbonyl]bis[ω -hydroxypoly(oxy-1,2-ethanediyl)], hexanedioic acid and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI)
 CN Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, polymer with 1,4-butanediol, α,α' -[(4,6-dicarboxy-1,3-phenylene)dicarbonyl]bis[ω -hydroxypoly(oxy-1,2-ethanediyl)] and hexanedioic acid (9CI)
 CN Poly(oxy-1,2-ethanediyl), α,α' -[(4,6-dicarboxy-1,3-phenylene)dicarbonyl]bis[ω -hydroxy-, polymer with 1,4-butanediol, hexanedioic acid and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI)
 MF (C12 H18 N2 O2 . C6 H10 O4 . C4 H10 O2 . (C2 H4 O)n (C2 H4 O)n C10 H6 O8)x
 CI PMS, COM
 PCT Polyester, Polyester formed, Polyether, Polyurethane, Polyurethane formed
 SR CA

CM 1

CRN 327159-82-0

CMF (C2 H4 O)n (C2 H4 O)n C10 H6 O8

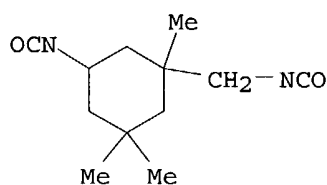
CCI PMS



CM 2

CRN 4098-71-9

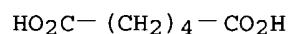
CMF C12 H18 N2 O2



CM 3

CRN 124-04-9

CMF C6 H10 O4



CM 4

CRN 110-63-4

CMF C4 H10 O2

HO-(CH₂)₄-OH

=> fil uspatfull
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
191.74	191.95

FULL ESTIMATED COST

FILE 'USPATFULL' ENTERED AT 12:12:29 ON 28 JUN 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 24 Jun 2004 (20040624/PD)
FILE LAST UPDATED: 24 Jun 2004 (20040624/ED)
HIGHEST GRANTED PATENT NUMBER: US6754908
HIGHEST APPLICATION PUBLICATION NUMBER: US2004123365
CA INDEXING IS CURRENT THROUGH 24 Jun 2004 (20040624/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 24 Jun 2004 (20040624/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2004
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2004

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d his

(FILE 'HOME' ENTERED AT 12:00:24 ON 28 JUN 2004)

FILE 'REGISTRY' ENTERED AT 12:00:29 ON 28 JUN 2004

	E HEXANE DIOL NEOPENYL GLYCOL ADIPIC ACID POLYESTER DIOL/CN
	E PIOTHANE 67-3000 HNA/CN
L1	1 S E4
	E RUCOFLEX S1015-35/CN
	E POLYETHYLENE TEREPHTHALATE POLYOL/CN
L2	1 S E7
	E DIMETHYLOLPROPANOIC ACID/CN
L3	1 S E2
	E FUMARIC ACID/CN
L4	1 S E3
L5	STRUCTURE UPLOADED
L6	0 S L5

L7 11 S L5 FULL

FILE 'USPATFULL' ENTERED AT 12:12:29 ON 28 JUN 2004

=> s 17

L8 2 L7

=> d

L8 ANSWER 1 OF 2 USPATFULL on STN

AN 94:51274 USPATFULL

TI Hydrophilic crosslinking monomers and polymers made therefrom

IN Bowen, Rafael L., Gaithersburg, MD, United States

PA American Dental Association Health Foundation, Gaithersburg, MD, United States (U.S. corporation)

PI US 5320886 19940614

AI US 1991-791999 19911114 (7)

DT Utility

FS Granted

LN.CNT 1646

INCL INCLM: 428/034.100

INCLS: 528/126.000; 528/127.000; 528/173.000; 528/179.000; 528/182.000;
528/185.000; 528/188.000; 528/205.000; 528/222.000; 528/223.000;
528/224.000; 528/332.000; 528/336.000; 528/337.000; 528/344.000;
528/345.000; 525/042.000; 525/043.000; 523/116.000

NCL NCLM: 428/034.100

NCLS: 523/116.000; 525/042.000; 525/043.000; 528/126.000; 528/127.000;
528/173.000; 528/179.000; 528/182.000; 528/185.000; 528/188.000;
528/205.000; 528/222.000; 528/223.000; 528/224.000; 528/332.000;
528/336.000; 528/337.000; 528/344.000; 528/345.000

IC [5]

ICM: B29D022-00

ICS: A61K006-08; C08G069-00

EXF 428/34.1; 525/42; 525/43; 528/126; 528/127; 528/173; 528/179; 528/182;
528/185; 528/188; 528/205; 528/222; 528/223; 528/224; 528/332; 528/336;
528/337; 528/344; 528/345; 523/116

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 1 hitstr

L8 ANSWER 1 OF 2 USPATFULL on STN

IT 156819-05-5P

(preparation of, as adhesive)

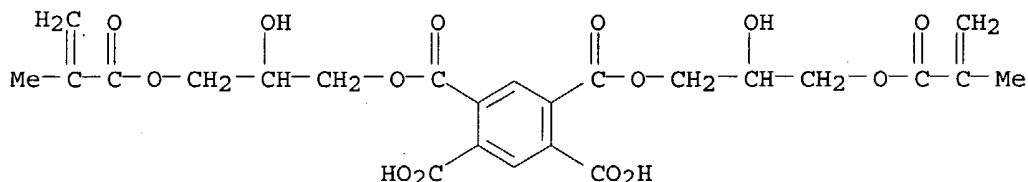
RN 156819-05-5 USPATFULL

CN 1,2,4,5-Benzenetetracarboxylic acid, 1,5-bis[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl] ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 156819-03-3

CMF C24 H26 O14

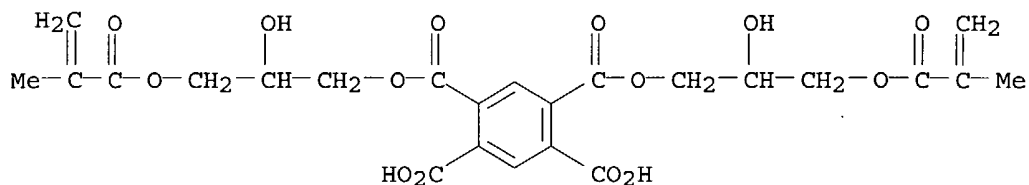


IT 156819-03-3P

(preparation of, as monomer for adhesive)

RN 156819-03-3 USPATFULL

CN 1,2,4,5-Benzenetetracarboxylic acid, 1,5-bis[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl] ester (9CI) (CA INDEX NAME)



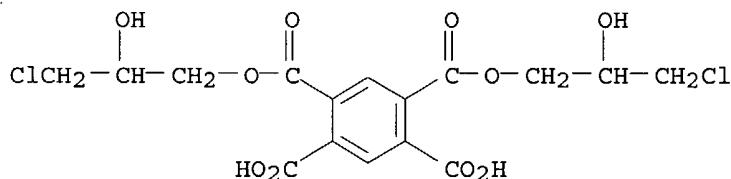
=> d 2 hitstr

L8 ANSWER 2 OF 2 USPATFULL on STN

IT 74229-70-2D, 1,1,2,2-tetrahydro-C8-11 perfluoroalkyl diester
(oilproofing agents, for incorporation into spin finishes for synthetic fibers, with improved storage stability)

RN 74229-70-2 USPATFULL

CN 1,2,4,5-Benzenetetracarboxylic acid, 1,5-bis(3-chloro-2-hydroxypropyl) ester (9CI) (CA INDEX NAME)



=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

13.54

205.49

FILE 'REGISTRY' ENTERED AT 12:14:46 ON 28 JUN 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 JUN 2004 HIGHEST RN 700346-78-7

DICTIONARY FILE UPDATES: 27 JUN 2004 HIGHEST RN 700346-78-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

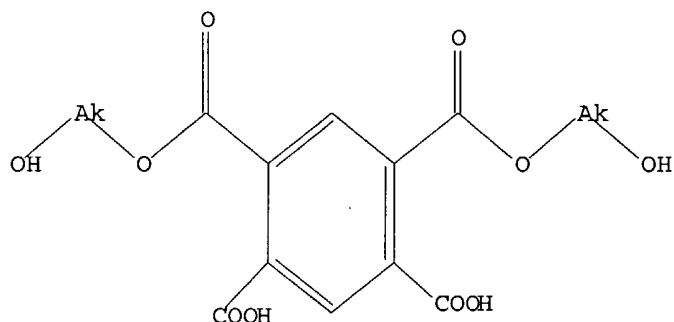
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer

to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>
Uploading C:\Program Files\Stnexp\Queries\diol.str

L9 STRUCTURE UPLOADED

=> d
L9 HAS NO ANSWERS
L9 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l9
SAMPLE SEARCH INITIATED 12:15:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 207 TO ITERATE

100.0% PROCESSED 207 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 3277 TO 5003
PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

=> s l9 full
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FULL SCREEN SEARCH COMPLETED - 4582 TO ITERATE

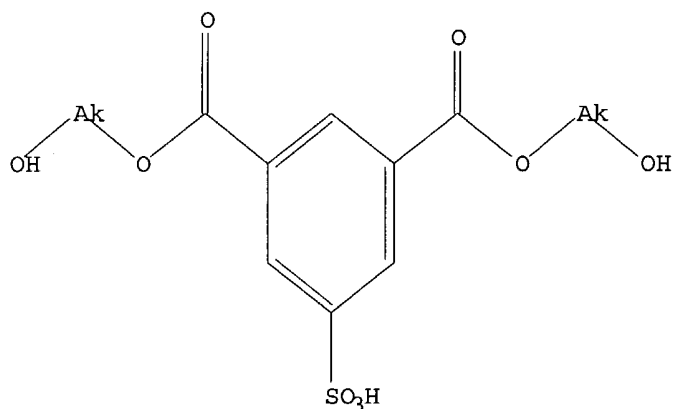
100.0% PROCESSED 4582 ITERATIONS 11 ANSWERS
SEARCH TIME: 00.00.01

L11 11 SEA SSS FUL L9

=>
Uploading C:\Program Files\Stnexp\Queries\diol 2.str

L12 STRUCTURE UPLOADED

=> d l12
L12 HAS NO ANSWERS
L12 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l12

SAMPLE SEARCH INITIATED 12:15:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 271 TO ITERATE

100.0% PROCESSED 271 ITERATIONS 17 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4433 TO 6407
PROJECTED ANSWERS: 93 TO 587

L13 17 SEA SSS SAM L12

=> s l12 full

FULL SEARCH INITIATED 12:15:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5388 TO ITERATE

100.0% PROCESSED 5388 ITERATIONS 343 ANSWERS
SEARCH TIME: 00.00.01

L14 343 SEA SSS FUL L12

=> d

L14 ANSWER 1 OF 343 REGISTRY COPYRIGHT 2004 ACS on STN
RN 671777-15-4 REGISTRY
CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-bis(2-hydroxyethyl) ester,
monosodium salt, polymer with 1,4-benzenedicarboxylic acid, Enpol 1008 and
1,2-ethanediol (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Enpol 1008-ethylene glycol-5-sodiosulfoisophthalic acid ethylene glycol
ester-terephthalic acid copolymer

MF (C12 H14 O9 S . C8 H6 O4 . C2 H6 O2 . Na . Unspecified)x

CI PMS

PCT Manual component, Polyester, Polyester formed, Polyother

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

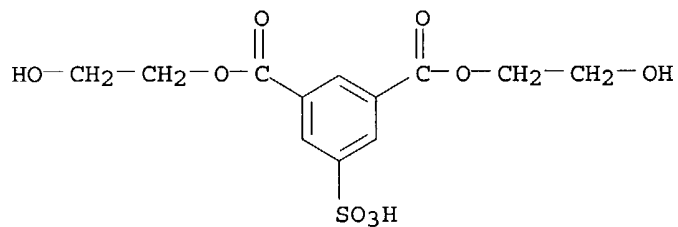
RL.P Roles from patents: PREP (Preparation); PROC (Process); PRP
(Properties); USES (Uses)

CRN 671777-11-0
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

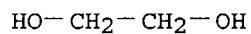
CRN 24019-46-3 (51097-52-0)
CMF C12 H14 O9 S . Na



● Na

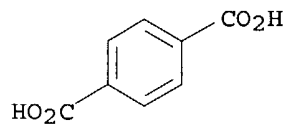
CM 3

CRN 107-21-1
CMF C2 H6 O2



CM 4

CRN 100-21-0
CMF C8 H6 O4



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil uspatfull
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
313.87	519.36

FILE 'USPATFULL' ENTERED AT 12:17:32 ON 28 JUN 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 24 Jun 2004 (20040624/PD)

FILE LAST UPDATED: 24 Jun 2004 (20040624/ED)
HIGHEST GRANTED PATENT NUMBER: US6754908
HIGHEST APPLICATION PUBLICATION NUMBER: US2004123365
CA INDEXING IS CURRENT THROUGH 24 Jun 2004 (20040624/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 24 Jun 2004 (20040624/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2004
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2004

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>>> USPAT2 is now available.  USPATFULL contains full text of the  <<<
>>> original, i.e., the earliest published granted patents or  <<<
>>> applications.  USPAT2 contains full text of the latest US  <<<
>>> publications, starting in 2001, for the inventions covered in  <<<
>>> USPATFULL.  A USPATFULL record contains not only the original  <<<
>>> published document but also a list of any subsequent  <<<
>>> publications.  The publication number, patent kind code, and  <<<
>>> publication date for all the US publications for an invention  <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL  <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc.  <<<

>>> USPATFULL and USPAT2 can be accessed and searched together  <<<
>>> through the new cluster USPATALL.  Type FILE USPATALL to  <<<
>>> enter this cluster.  <<<
>>>  <<<
>>> Use USPATALL when searching terms such as patent assignees,  <<<
>>> classifications, or claims, that may potentially change from  <<<
>>> the earliest to the latest publication.  <<<
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This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d his

(FILE 'HOME' ENTERED AT 12:00:24 ON 28 JUN 2004)

FILE 'REGISTRY' ENTERED AT 12:00:29 ON 28 JUN 2004

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      E HEXANE DIOL NEOPENYL GLYCOL ADIPIC ACID POLYESTER DIOL/CN
      E PIOTHANE 67-3000 HNA/CN
L1      1 S E4
      E RUCOFLEX S1015-35/CN
      E POLYETHYLENE TEREPHTHALATE POLYOL/CN
L2      1 S E7
      E DIMETHYLOLPROPANOIC ACID/CN
L3      1 S E2
      E FUMARIC ACID/CN
L4      1 S E3
L5      STRUCTURE UPLOADED
L6      0 S L5
L7      11 S L5 FULL
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FILE 'USPATFULL' ENTERED AT 12:12:29 ON 28 JUN 2004

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L8      2 S L7
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FILE 'REGISTRY' ENTERED AT 12:14:46 ON 28 JUN 2004

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L9      STRUCTURE UPLOADED
L10     0 S L9
L11     11 S L9 FULL
L12     STRUCTURE UPLOADED
L13     17 S L12
L14     343 S L12 FULL
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FILE 'USPATFULL' ENTERED AT 12:17:32 ON 28 JUN 2004

=> s l14

L15 42 L14

=> s l15 and polyurethane

129464 POLYURETHANE

L16 21 L15 AND POLYURETHANE

=> dup rem l16

PROCESSING COMPLETED FOR L16

L17 21 DUP REM L16 (0 DUPLICATES REMOVED)

=> d ibib abs hitstr

L17 ANSWER 1 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2004:134005 USPATFULL

TITLE: Coloured, water-dissipatable polyurethanes

INVENTOR(S): Pears, David Alan, Manchester, UNITED KINGDOM

James, Mark Robert, Manchester, UNITED KINGDOM

Walker, Mark, Manchester, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004102542	A1	20040527
APPLICATION INFO.:	US 2003-380793	A1	20030319 (10)
	WO 2001-GB5485		20011212
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, DC, 20004		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1350		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

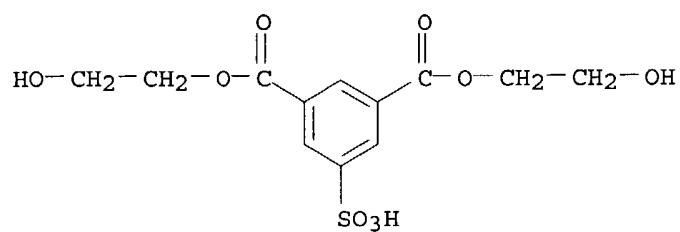
AB A coloured, water-dissipatable **polyurethane** having a weight average molecular weight $\leq 30,000$ Daltons obtained from the reaction of components comprising i) a polyisocyanate, ii) a compound providing ionic water-dispersing groups, iii) a colorant having two or more functional groups and iv) optionally a colorant having one functional group wherein the coloured, water-dissipatable **polyurethane** comprises at least 18% by weight of colorant.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **24019-46-3DP**, Bis(ethylene glycol) 5-sodiosulfoisophthalate, polymer with IPDI and azo-containing diols **439289-43-7P**
439289-44-8P **439289-45-9DP**, polyethylene glycol monomethyl ether-terminated **439289-47-1DP**, aromatic azo-containing ethanol derivative-terminated
(preparation of colored and water-dissipatable polyurethanes for ink-jet inks)

RN 24019-46-3 USPATFULL

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-bis(2-hydroxyethyl) ester, monosodium salt (9CI) (CA INDEX NAME)



● Na

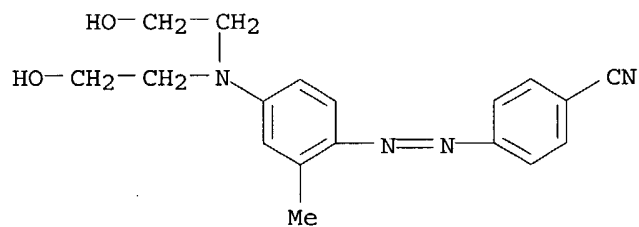
RN 439289-43-7 USPATFULL

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-bis(2-hydroxyethyl) ester, monosodium salt, polymer with 4-[[4-[bis(2-hydroxyethyl)amino]-2-methylphenyl]azo]benzonitrile and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI) (CA INDEX NAME)

CM 1

CRN 134245-40-2

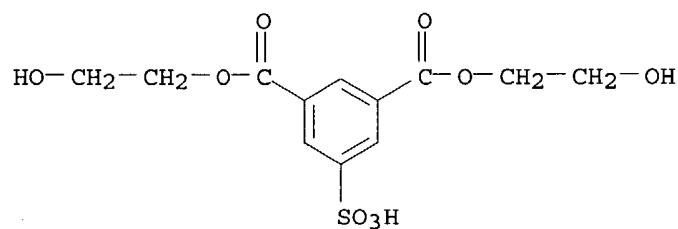
CMF C18 H20 N4 O2



CM 2

CRN 24019-46-3

CMF C12 H14 O9 S . Na

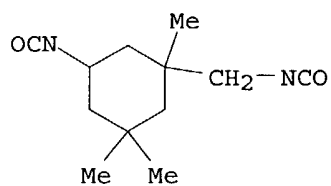


● Na

CM 3

CRN 4098-71-9

CMF C12 H18 N2 O2



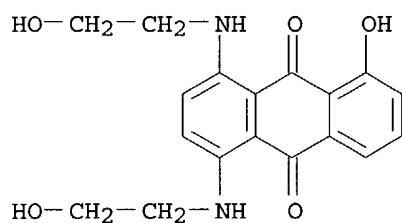
RN 439289-44-8 USPATFULL

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-bis(2-hydroxyethyl) ester, monosodium salt, polymer with 5-hydroxy-1,4-bis[(2-hydroxyethyl)amino]-9,10-anthracenedione and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI) (CA INDEX NAME)

CM 1

CRN 36339-05-6

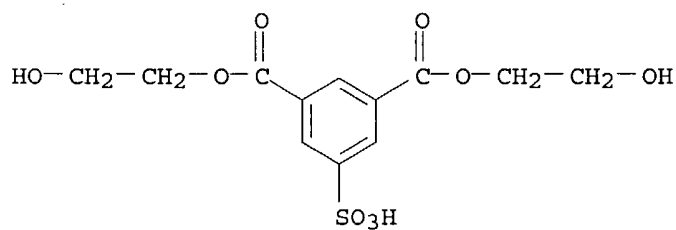
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CM 2

CRN 24019-46-3

CMF C12 H14 O9 S . Na

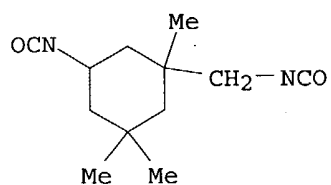


● Na

CM 3

CRN 4098-71-9

CMF C12 H18 N2 O2



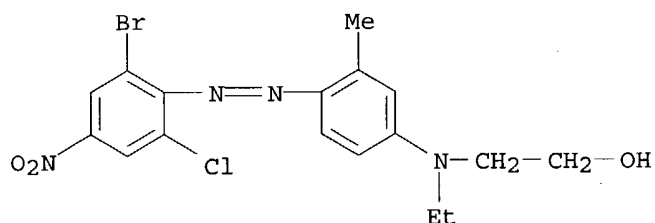
RN 439289-45-9 USPATFULL

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-bis(2-hydroxyethyl) ester, monosodium salt, polymer with 2-[[4-[(2-bromo-6-chloro-4-nitrophenyl)azo]-3-methylphenyl]ethylamino]ethanol, 2,2'-[[4-[(2-bromo-6-chloro-4-nitrophenyl)azo]-3-methylphenyl]imino]bis[ethanol] and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI) (CA INDEX NAME)

CM 1

CRN 439289-40-4

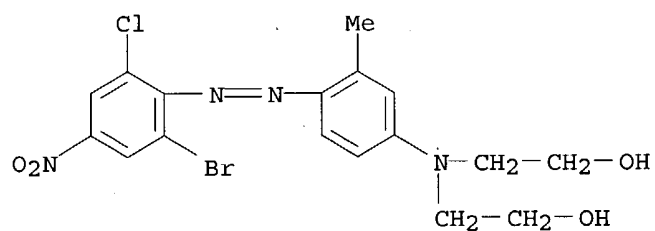
CMF C17 H18 Br Cl N4 O3



CM 2

CRN 71342-63-7

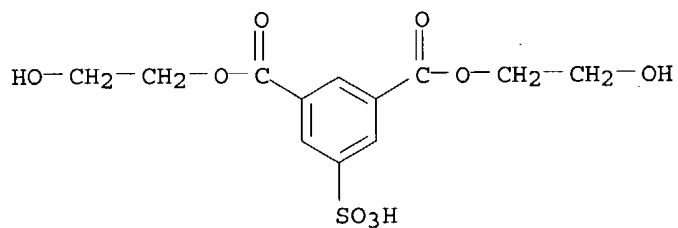
CMF C17 H18 Br Cl N4 O4



CM 3

CRN 24019-46-3

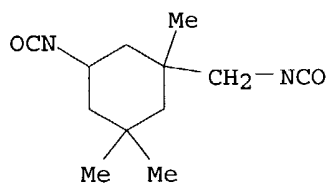
CMF C12 H14 O9 S . Na



CM 4

CRN 4098-71-9

CMF C12 H18 N2 O2



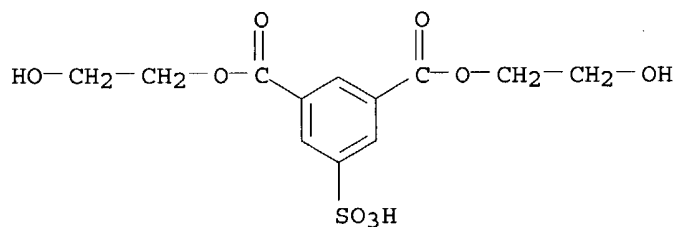
RN 439289-47-1 USPATFULL

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-bis(2-hydroxyethyl) ester, monosodium salt, polymer with 2,2'-[[4-[(2-bromo-6-chloro-4-nitrophenyl)azo]-3-chlorophenyl]imino]bis[ethanol] and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI) (CA INDEX NAME)

CM 1

CRN 24019-46-3

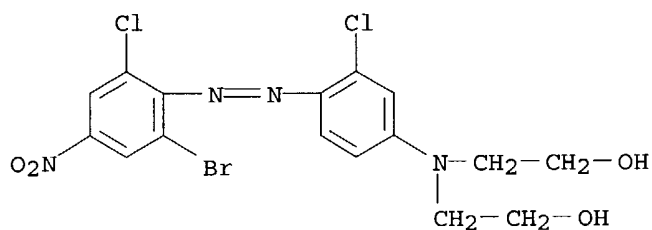
CMF C12 H14 O9 S . Na



CM 2

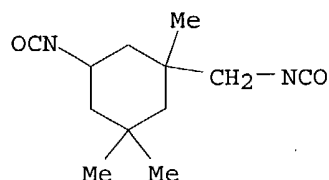
CRN 17464-91-4

CMF C16 H15 Br C12 N4 O4



CM 3

CRN 4098-71-9
CMF C12 H18 N2 O2



=> d 2 ibib

L17 ANSWER 2 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2003:324517 USPATFULL
TITLE: Magnetic recording medium
INVENTOR(S): Ejiri, Kiyomi, Kanagawa, JAPAN
Inoue, Noriko, Kanagawa, JAPAN
PATENT ASSIGNEE(S): FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003228492	A1	20031211
APPLICATION INFO.:	US 2003-448099	A1	20030530 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2002-157510	20020530
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC, 20037	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1081	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 3 ibib

L17 ANSWER 3 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2003:219516 USPATFULL
TITLE: Magnetic recording medium
INVENTOR(S): Murayama, Yuichiro, Odawara-shi, JAPAN
Hashimoto, Hiroshi, Odawara-shi, JAPAN
PATENT ASSIGNEE(S): FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003152806	A1	20030814
APPLICATION INFO.:	US 2002-265709	A1	20021008 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2001-311007	20011009
	JP 2001-317258	20011015
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SUGHRUE MION, PLLC, 2100 Pennsylvania Avenue, NW, Washington, DC, 20037-3213	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1142	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

=> d 4 ibib

L17 ANSWER 4 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2003:200682 USPATFULL

TITLE: Magnetic recording medium

INVENTOR(S): Hashimoto, Hiroshi, Odawara-shi, JAPAN
Meguro, Katsuhiko, Odawara-shi, JAPAN
Murayama, Yuichiro, Odawara-shi, JAPAN
Mori, Masahiko, Odawara-shi, JAPAN

PATENT ASSIGNEE(S): FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003138667	A1	20030724
APPLICATION INFO.:	US 2002-219669	A1	20020816 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2001-248641	20010820
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SUGHRUE MION, PLLC, 2100 Pennsylvania Avenue, NW, Washington, DC, 20037-3213	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1848	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

=> d 5 ibib

L17 ANSWER 5 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2003:173026 USPATFULL

TITLE: Magnetic recording medium

INVENTOR(S): Noguchi, Hitoshi, Odawara-shi, JAPAN
Yamazaki, Nobuo, Odawara-shi, JAPAN
Saito, Shinji, Odawara-shi, JAPAN

PATENT ASSIGNEE(S): FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003118870	A1	20030626
APPLICATION INFO.:	US 2002-281947	A1	20021029 (10)

NUMBER	DATE
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 PRIORITY INFORMATION: JP 2001-330576 20011029
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W.,
 WASHINGTON, DC, 20037
 NUMBER OF CLAIMS: 9
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 1 Drawing Page(s)
 LINE COUNT: 1869
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 6 ibib

L17 ANSWER 6 OF 21 USPATFULL on STN
 ACCESSION NUMBER: 2003:3265 USPATFULL
 TITLE: Multilobal polymer filaments and articles produced
 therefrom
 INVENTOR(S): Johnson, Stephen B., Wilmington, NC, UNITED STATES
 Samuelson, H. Vaughn, Chadds Ford, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003003299	A1	20030102
	US 6673442	B2	20040106
APPLICATION INFO.:	US 2001-863166	A1	20010523 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-206980P	20000525 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	E I DU PONT DE NEMOURS AND COMPANY, LEGAL PATENT RECORDS CENTER, BARLEY MILL PLAZA 25/1128, 4417 LANCASTER PIKE, WILMINGTON, DE, 19805	
NUMBER OF CLAIMS:	35	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	19 Drawing Page(s)	
LINE COUNT:	1986	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

=> d 6 abs hitstr

L17 ANSWER 6 OF 21 USPATFULL on STN
 AB This invention provides polymer filaments having a multilobal
 cross-section. The cross-section can have a filament factor of about 2.0
 or greater and a tip ratio of greater than about 0.2. The filaments may
 be used as-spun as a spin-oriented feed yarn or as a direct use yarn.
 The multifilament yarns made from these filaments are useful to make
 articles with subdued luster and low glitter.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

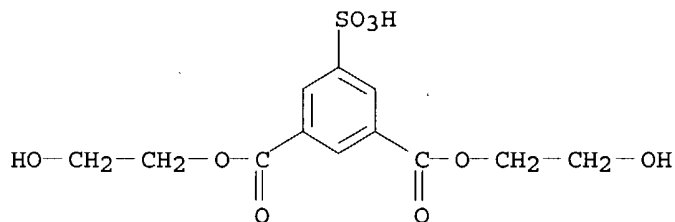
IT 171429-97-3

(fiber; polymer filaments having multilobal cross-section for textiles
 with reduced glitter and shine)

RN 171429-97-3 USPATFULL

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-bis(2-hydroxyethyl) ester,
 monolithium salt, polymer with 1,4-benzenedicarboxylic acid and
 1,2-ethanediol (9CI) (CA INDEX NAME)

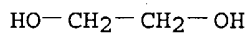
CRN 150099-94-8
CMF C12 H14 O9 S . Li



● Li

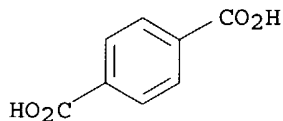
CM 2

CRN 107-21-1
CMF C2 H6 O2



CM 3

CRN 100-21-0
CMF C8 H6 O4



=> d 7 ibib

L17 ANSWER 7 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2003:273452 USPATFULL

TITLE: Colored polyurethanes

INVENTOR(S): Pears, David Alan, Manchester, UNITED KINGDOM
Padget, John Christopher, Frodsham, UNITED KINGDOM
James, Mark Robert, Manchester, UNITED KINGDOM
Gregory, Peter, Manchester, UNITED KINGDOM

PATENT ASSIGNEE(S): Avecia Limited, Manchester, UNITED KINGDOM (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6632858	B1	20031014
	WO 9950326		19991007
APPLICATION INFO.:	US 2000-647477		20000929 (9)
	WO 1999-GB785		19990325

NUMBER DATE

 PRIORITY INFORMATION: GB 1998-6789 19980331
 DOCUMENT TYPE: Utility
 FILE SEGMENT: GRANTED
 PRIMARY EXAMINER: Shosho, Callie
 LEGAL REPRESENTATIVE: Pillsbury Winthrop LLP
 NUMBER OF CLAIMS: 9
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
 LINE COUNT: 1031
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 7 abs kwic hitstr

L17 ANSWER 7 OF 21 USPATFULL on STN

AB The invention relates to polyurethanes, inks comprising polyurethanes and their use in ink jet printing where the **polyurethane** comprises a colored water-dissipatable **polyurethane** obtainable from the reaction of a polyisocyanate, a compound providing water-dispersing groups and a colorant having at least two functional groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to polyurethanes, inks comprising polyurethanes and their use in ink jet printing where the **polyurethane** comprises a colored water-dissipatable **polyurethane** obtainable from the reaction of a polyisocyanate, a compound providing water-dispersing groups and a colorant having at least two functional.

SUMM EP 0769 509 describes a high molecular weight chain extended **polyurethane**, formed from a colored isocyanate-terminated **polyurethane** prepolymer, for use in ink jet printers with piezo heads. However this composition is not ideal for use in ink. . .

SUMM According to a first aspect of the present invention there is provided a non-isocyanate terminated, colored, water-dissipatable **polyurethane** having a weight average molecular weight less than 30,000 obtainable from the reaction of a mixture comprising the components:

SUMM The colored water-dissipatable **polyurethane** preferably has a weight average molecular weight (Mw) less than 30,000 because this Mw leads to an improved performance of inks containing the **polyurethane**, especially for use in thermal ink jet printers. The Mw of the **polyurethane** is preferably less than 25,000, more preferably from 1000 to 25,000, more preferably from 1000 to 20,000, most preferably from. . .

SUMM The gel permeation chromatography method used for determining Mw preferably comprises applying the **polyurethane** to a chromatography column packed with cross-linked polystyrene/divinyl benzene, eluting the column with tetrahydrofuran at a temperature of 40° C. and assessing the Mw of the **polyurethane** compared to a number of a polystyrene standards of a known Mw. Suitable chromatography columns packed with cross-linked polystyreneldivinyl benzene. . .

SUMM The water-dispersing groups are preferably present in the **polyurethane** as in-chain, pendant or terminal groups. Further water-dispersing groups may be introduced into the **polyurethane** by means of a capping reagent having one isocyanate or isocyanate-reactive group and a water-dispersing group.

SUMM The nature and level of water-dispersing groups in the **polyurethane** influences whether a solution, dispersion, emulsion or suspension is formed on dissipation of the **polyurethane**.

SUMM The water-dispersing group content of the **polyurethane** may vary within wide limits but is usually selected to be sufficient to

ensure the **polyurethane** forms stable ink-jet printing inks in water and aqueous media. The **polyurethane** is preferably soluble in water, although minor amount of the **polyurethane** may be insoluble in water and exist as dispersed particles when mixed with aqueous media or water.

SUMM Preferably the proportion of insoluble **polyurethane** is less than 50%, preferably less than 40% and most preferably less than 30% by weight relative to the total weight of the **polyurethane**. This allows the preparation of concentrates which may be used to prepare more dilute inks and reduces the chance of the **polyurethane** precipitating if evaporation of the aqueous media occurs during storage. The size of insoluble **polyurethane** particulates when dissipated in an ink is preferably less than 100nm, and more preferably less than 60nm.

SUMM The ionic water-dispersing groups may be incorporated into the **polyurethane** in the form of a low molecular weight monomers, polyol or polyamine bearing the appropriate ionic water-dispersing groups where polyol. . . .

SUMM be required. The conversion of any free acid groups into the corresponding salt may be effected during the preparation of the **polyurethane** and/or during the preparation of an ink from the **polyurethane**.

SUMM Generally a base is used which gives the required counter ion desired for the ink which is prepared from the **polyurethane**. For example, suitable counter ions include Li.sup.+, Na.sup.+, K.sup.+, NH.sub.4.sup.+, Cs.sup.+ and substituted ammonium salts, including tributylammonium, imidazolium, tetramethyl ammonium,. . . .

SUMM The function of component iii) is to colour the **polyurethane**. Component iii) preferably comprises a chromophoric group and at least two functional groups selected from isocyanate and isocyanate-reactive groups. Preferably. . . .

SUMM dyes. The amount of component iii) used in the reaction mixture depends on the intensity of colour required in the **polyurethane**. The amount is preferably from 1 to 35%, more preferably from 10 to 30%, especially from 15 to 25% by. . . .

SUMM diols may be members of any of the chemical classes of polymeric diols used or proposed to be used in **polyurethane** formulations. In particular, the diols may be polyesters, polyesteramides, polyethers (other than ones providing polyethyleneoxide and/or polypropyleneoxide groups), polythioethers, polycarbonates,. . . .

SUMM Terminating compounds may be used to cap off any excess isocyanate end groups in the colored water-dissipatable **polyurethane** resulting from the reaction of components i) ii) and iii), by the addition of compounds having an isocyanate-reactive group. Compounds. . . .

SUMM The terminating compounds may also bear water-dispersing groups. If there are any excess isocyanate-reactive end groups in the coloured water-dissipatable **polyurethane** resulting from the reaction of components i) ii) and iii), these may optionally be capped off by the addition of. . . .

SUMM The **polyurethane** may contain further linkages in addition to urethane linkages, for example urea, amide, thiourea or thiourethane linkages. Preferably the coloured water-dissipatable **polyurethane** of the present invention (and resultant inks) is yellow, magenta, cyan or black.

SUMM The **polyurethane** may be prepared in a conventional manner by reacting the components having isocyanate groups with the components having isocyanate-reactive groups.. . .

SUMM Preferably the **polyurethane** is not a chain-extended **polyurethane**. Preferably dissipation of the **polyurethane** in water results in essentially no chain-extension. In other words, preferably the reaction does not comprise a step in which two or more **polyurethane** molecules are deliberately linked together in water

by a chain-extender, wherein the chain-extender comprises a compound having two or three. . .

SUMM If desired a catalyst may be used to assist formation of the **polyurethane**. Suitable catalysts include butyl tin dilaurate, stannous octoate and tertiary amines as known in the art.

SUMM Preferably the **polyurethane** according to the first aspect of the present invention has been obtained by the stated process.

SUMM Preferably the **polyurethane** (and any resultant inks) is yellow, magenta, cyan or black.

SUMM The **polyurethane** of the present invention may be purified if desired in the usual way for colorants used in ink jet printing inks. For example a mixture of the **polyurethane** and water may be purified by ion-exchange, filtration, reverse osmosis, dialysis, ultra-filtration or a combination thereof. In this way one. . .

SUMM In a second aspect of the present invention there is provided an ink comprising a coloured water-dissipatable **polyurethane** according to the first aspect of the present invention and a liquid medium. A preferred ink comprises:

SUMM (a) from 0.25 to 30 parts of a **polyurethane** according to the first aspect of the present invention; and

SUMM The inks according to the second aspect of the invention may be prepared by mixing the **polyurethane** with the liquid medium. Suitable techniques are well known in the art, for example agitation, ultrasonication or stirring of the mixture. The mixture of the **polyurethane** and liquid medium may be in the form of a dispersion, emulsification, suspension, solution or mixture thereof.

SUMM Preferably the **polyurethane** is mixed with a first liquid medium, followed by mixing the resultant mixture with a second liquid medium.

SUMM . . . preferably water, a mixture of water and an organic solvent and an organic solvent free from water. For example the **polyurethane** may be added to water followed by the addition of one or more organic solvents. Preferably the first liquid medium. . .

SUMM . . . the liquid medium comprises a water-immiscible organic solvent, preferably a polar solvent is included because this enhances solubility of the **polyurethane** in the liquid medium. Examples of polar solvents include C.sub.1-4-alcohols. In view of the foregoing preferences it is especially preferred. . .

SUMM The ink may also contain a surfactant. This helps to dissipate the **polyurethane** in addition to the dissipation caused by dispersing groups provided by component ii) of the **polyurethane**. Optionally the ink may also contain other ingredients used in ink jet printing inks, for example conductivity agents, defoamers, anti-oxidants, . . .

SUMM . . . preferably the same base as was used to neutralise the anionic dispersing group during the preparation of the coloured water-dissipatable **polyurethane**.

SUMM . . . invention provides a process for printing an image on a substrate comprising applying thereto an ink containing a coloured water-dissipatable **polyurethane** of the present invention by means of an ink jet printer.

DETD The molecular weight distribution of the resultant **polyurethane** was measured by gel permeation chromatography (GPC) to give the weight average molecular weight, Mw, and a number average molecular. . .

DETD
TABLE 2

Polyurethane Parts of Optical Colour Colour
from **polyurethane** in density Lightness coordinates coordinates
Westfastness after: Highlighter

Example ink (paper type) OD L a b 24 hours 1 hour 5. . .

CLM What is claimed is:

. . . An ink having a viscosity of less than 20 cp at 20° C.
comprising (a) a non-isocyanate terminated, coloured, water-dissipatable

polyurethane, having a weight average molecular weight from 1,000 to 15,000 obtained from the reaction of a mixture comprising the components: . . . one colorant having at least two functional groups selected from isocyanate groups and isocyanate-reactive groups; where the proportion of insoluble **polyurethane** in water is less than 50%; provided that the **polyurethane** is not a chain-extended **polyurethane** and (b) a liquid medium.

6. An ink according to claim 1, wherein said **polyurethane** has a weight average molecular weight of from 1,000 to 10,000.

7. An ink according to claim 1, wherein said **polyurethane** is yellow, magenta, cyan, or black.

IT 245470-89-7DP, reaction product with 2-butanone oxime 245470-89-7DP,
 reaction product with methoxy polyethylene glycol 245470-89-7P
 245470-90-0DP, reaction product with methoxy polyethylene glycol
 245470-91-1DP, reaction product with methoxy polyethylene glycol
 245470-92-2DP, reaction product with methoxy polyethylene glycol
 245470-94-4DP, reaction product with methoxy polyethylene glycol
 245470-95-5DP, reaction product with methoxy polyethylene glycol
 245470-96-6DP, reaction product with methoxy polyethylene glycol
 245470-97-7DP, reaction product with methoxy polyethylene glycol
 245470-99-9DP, reaction product with methoxy polyethylene glycol
 245471-00-5DP, reaction product with methoxy polyethylene glycol
 245471-01-6DP, reaction product with methoxy polyethylene glycol
 245471-02-7DP, reaction product with methoxy polyethylene glycol
 245471-03-8DP, reaction product with methoxy polyethylene glycol
 245471-04-9DP, reaction product with methoxy polyethylene glycol
 245471-05-0DP, reaction product with methoxy polyethylene glycol
 245471-06-1P

(preparation of colored polyurethanes)

IT 245471-00-5DP, reaction product with methoxy polyethylene glycol
 245471-01-6DP, reaction product with methoxy polyethylene glycol
 245471-04-9DP, reaction product with methoxy polyethylene glycol
 (preparation of colored polyurethanes)

RN 245471-00-5 USPATFULL

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-bis(2-hydroxyethyl) ester, monosodium salt, polymer with 2,2'-[[4-[(2-bromo-6-chloro-4-nitrophenyl)azo]-3-chlorophenyl]imino]bis[ethanol], α -hydro- ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)], 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI) (CA INDEX NAME)

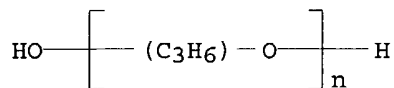
CM 1

CRN 25322-69-4

CMF (C3 H6 O)_n H2 O

CCI IDS, PMS

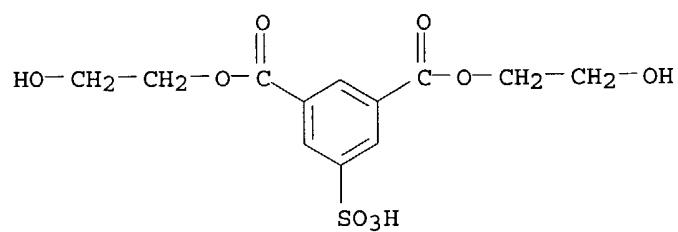
CDES 8:ID



CM 2

CRN 24019-46-3

CMF C12 H14 O9 S . Na

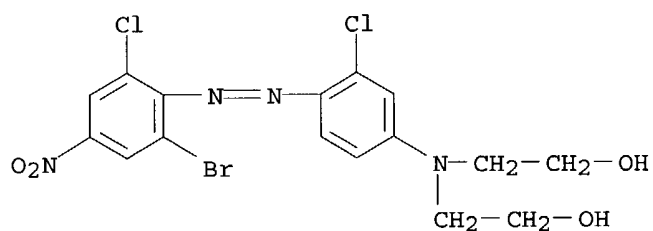


● Na

CM 3

CRN 17464-91-4

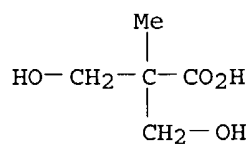
CMF C16 H15 Br Cl2 N4 O4



CM 4

CRN 4767-03-7

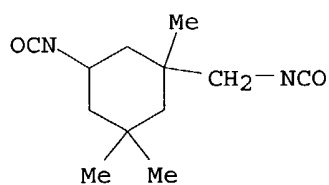
CMF C5 H10 O4



CM 5

CRN 4098-71-9

CMF C12 H18 N2 O2



RN 245471-01-6 USPATFULL

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-bis(2-hydroxyethyl) ester, monosodium salt, polymer with 2,2'-[[4-[(2-bromo-6-chloro-4-

nitrophenyl)azo]-3-chlorophenyl]imino]bis[ethanol], α -hydro-
 ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 5-isocyanato-1-
(isocyanatomethyl)-1,3,3-trimethylcyclohexane, block (9CI) (CA INDEX
NAME)

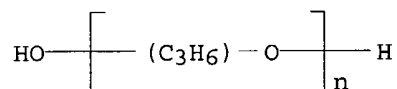
CM 1

CRN 25322-69-4

CMF (C3 H6 O)_n H2 O

CCI IDS, PMS

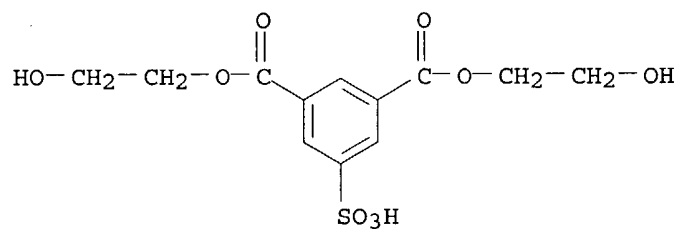
CDES 8:ID



CM 2

CRN 24019-46-3

CMF C12 H14 O9 S . Na

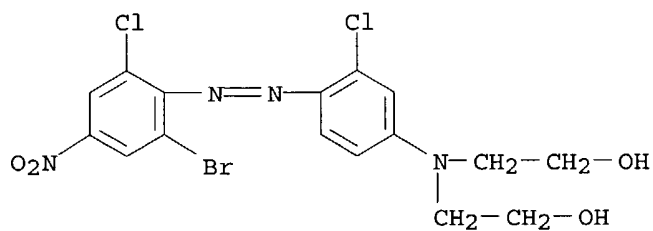


● Na

CM 3

CRN 17464-91-4

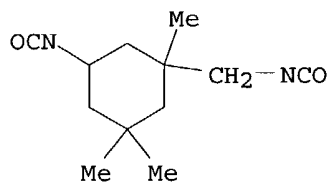
CMF C16 H15 Br Cl2 N4 O4



CM 4

CRN 4098-71-9

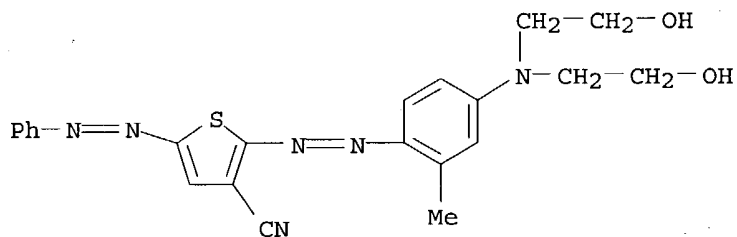
CMF C12 H18 N2 O2



RN 245471-04-9 USPATFULL
 CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-bis(2-hydroxyethyl) ester, monosodium salt, polymer with 2-[[4-[bis(2-hydroxyethyl)amino]-2-methylphenyl]azo]-5-(phenylazo)-3-thiophenecarbonitrile, α -hydro- ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, block (9CI) (CA INDEX NAME)

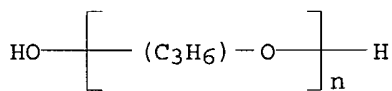
CM 1

CRN 245470-82-0
 CMF C22 H22 N6 O2 S



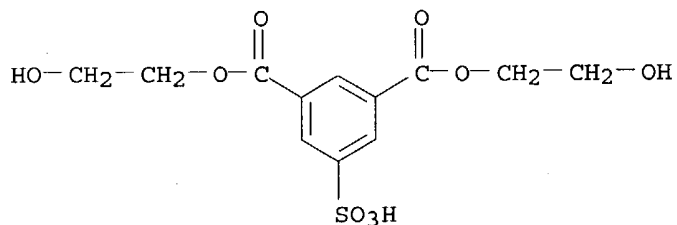
CM 2

CRN 25322-69-4
 CMF (C3 H6 O)_n H2 O
 CCI IDS, PMS
 CDES 8:ID



CM 3

CRN 24019-46-3
 CMF C12 H14 O9 S . Na

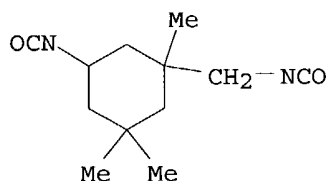


● Na

CM 4

CRN 4098-71-9

CMF C12 H18 N2 O2



=> d 8 ibib

L17 ANSWER 8 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2003:136859 USPATFULL

TITLE: Magnetic recording medium

INVENTOR(S): Murayama, Yuichiro, Odawara, JAPAN

Meguro, Katsuhiko, Odawara, JAPAN

Hashimoto, Hiroshi, Odawara, JAPAN

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Kanagawa, JAPAN (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6565964	B1	20030520
APPLICATION INFO.:	US 1998-94496		19980610 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-155382	19970612
	JP 1997-155383	19970612
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Thibodeau, Paul	
ASSISTANT EXAMINER:	Bernatz, Kevin M.	
LEGAL REPRESENTATIVE:	Sughrue Mion, PLLC	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	
LINE COUNT:	1010	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

=> d 9 ibib

L17 ANSWER 9 OF 21 USPATFULL on STN
ACCESSION NUMBER: 2002:148440 USPATFULL
TITLE: Magnetic recording medium
INVENTOR(S): Hattori, Yasushi, Kanagawa, JAPAN
Asada, Nobuyoshi, Kanagawa, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002076578	A1	20020620
APPLICATION INFO.:	US 2001-5430	A1	20011102 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2000-336246	20001102
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STROOCK & STROOCK & LAVAN LLP, 180 Maiden Lane, New York, NY, 10038	
NUMBER OF CLAIMS:	12	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1616	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 10 ibib

L17 ANSWER 10 OF 21 USPATFULL on STN
ACCESSION NUMBER: 2002:88119 USPATFULL
TITLE: Magnetic recording medium
INVENTOR(S): Murayama, Yuichiro, Odawara, JAPAN
Satake, Masaki, Odawara, JAPAN
Hashimoto, Hiroshi, Odawara, JAPAN
Okita, Tsutomu, Odawara, JAPAN
PATENT ASSIGNEE(S): Fuji Photo Film, Ltd., Kanagawa, JAPAN (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6376083	B1	20020423
APPLICATION INFO.:	US 1995-532976		19950922 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1994-228178	19940922
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Resan, Stevan A.	
LEGAL REPRESENTATIVE:	Sughrue Mion, PLLC	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	
LINE COUNT:	860	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 11 ibib

L17 ANSWER 11 OF 21 USPATFULL on STN
ACCESSION NUMBER: 2001:212043 USPATFULL
TITLE: Magnetic recording medium
INVENTOR(S): Naoe, Koji, Kanagawa, Japan
Ejiri, Kiyomi, Kanagawa, Japan

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001044037	A1	20011122
	US 6602576	B2	20030805
APPLICATION INFO.:	US 2001-798807	A1	20010302 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2000-62191	20000307
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STROOCK & STROOCK & LAVAN, LLP, 180 Maiden Lane, New York, NY, 10038-4982	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1390	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

=> d 12 ibib

L17 ANSWER 12 OF 21 USPATFULL on STN
 ACCESSION NUMBER: 2001:63345 USPATFULL
 TITLE: Magnetic recording medium
 INVENTOR(S): Murayama, Yuichiro, Odawara, Japan
 Meguro, Katsuhiko, Odawara, Japan
 Hashimoto, Hiroshi, Odawara, Japan
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Kanagawa, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6224967	B1	20010501
APPLICATION INFO.:	US 1998-82730		19980521 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-130823	19970521
	JP 1997-357617	19971225
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Resan, Stevan A.	
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn Macpeak & Seas, PLLC	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1020	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

=> d 13 ibib

L17 ANSWER 13 OF 21 USPATFULL on STN
 ACCESSION NUMBER: 2001:40149 USPATFULL
 TITLE: Magnetic recording medium
 INVENTOR(S): Naoe, Koji, Kanagawa, Japan
 Ejiri, Kiyomi, Kanagawa, Japan
 Abe, Naoto, Kanagawa, Japan
 PATENT ASSIGNEE(S): Fui Photo Film Co., Ltd., Kanagawa, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6203934	B1	20010320

APPLICATION INFO.: US 1998-169189 19981008 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-280629	19971014
	JP 1998-1760	19980107
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Pianalto, Bernard	
LEGAL REPRESENTATIVE:	Stroock & Stroock & Lavan LLP	
NUMBER OF CLAIMS:	35	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1761	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 14 ibib

L17 ANSWER 14 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2000:157044 USPATFULL

TITLE: Magnetic recording particulate medium

INVENTOR(S): Araki, Hiroaki, Kanagawa, Japan
Yoshida, Tsuneo, Kanagawa, Japan
Aoki, Toshichika, Kanagawa, Japan
Aonuma, Masashi, Kanagawa, Japan
Kato, Kazuo, Kanagawa, Japan
Katayama, Kazutoshi, Kanagawa, Japan
Hashimoto, Hiroshi, Kanagawa, Japan

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Kanagawa, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6149989		20001121
APPLICATION INFO.:	US 1998-84866		19980528 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-141872	19970530
	JP 1997-298611	19971030
	JP 1997-298612	19971030
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Pianalto, Bernard	
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn, Macpeak & Seas, PLLC	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	1962	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 15 ibib

L17 ANSWER 15 OF 21 USPATFULL on STN

ACCESSION NUMBER: 1999:132405 USPATFULL

TITLE: Magnetic recording medium

INVENTOR(S): Murayama, Yuichiro, Odawara, Japan
Satake, Masaki, Odawara, Japan
Hashimoto, Hiroshi, Odawara, Japan

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Kanagawa, Japan (non-U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION:	US 5972515	19991026	
APPLICATION INFO.:	US 1997-852287	19970507	(8)

	NUMBER	DATE	
PRIORITY INFORMATION:	JP 1996-117402	19960513	
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Resan, Stevan A.		
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn, Macpeak & Seas, PLLC		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
LINE COUNT:	950		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 16 ibib

L17 ANSWER 16 OF 21 USPATFULL on STN

ACCESSION NUMBER: 1998:98674 USPATFULL

TITLE: Magnetic recording medium

INVENTOR(S): Takahashi, Masatoshi, Kanagawa, Japan
Asada, Nobuyoshi, Kanagawa, Japan
Hashimoto, Hiroshi, Kanagawa, Japan
Aonuma, Masashi, Kanagawa, Japan

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Kanagawa, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5795645		19980818
APPLICATION INFO.:	US 1996-617555		19960319 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1995-97497	19950331
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Resan, Stevan A.	
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn, Macpeak & Seas, PLLC	
NUMBER OF CLAIMS:	29	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1451	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 17 ibib

L17 ANSWER 17 OF 21 USPATFULL on STN

ACCESSION NUMBER: 1998:33724 USPATFULL

TITLE: Electrophotographic transfer film and color image formation process

INVENTOR(S): Takehana, Tadashi, Fujinomiya, Japan
Tani, Yoshio, Fujinomiya, Japan
Hosoi, Kiyoshi, Ebina, Japan
Harada, Katsumi, Ebina, Japan

PATENT ASSIGNEE(S): Fuji Xerox Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5733694		19980331
APPLICATION INFO.:	US 1996-673362		19960628 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1995-191238	19950704
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Martin, Roland	
LEGAL REPRESENTATIVE:	Oliff & Berridge, PLC	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 3 Drawing Page(s)	
LINE COUNT:	1348	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

=> d 18 ibib

L17 ANSWER 18 OF 21 USPATFULL on STN
 ACCESSION NUMBER: 97:122967 USPATFULL
 TITLE: Magnetic recording medium comprising ferromagnetic powder and a specified **polyurethane** resin
 INVENTOR(S): Murayama, Yuichiro, Odawara, Japan
 Satake, Masaki, Odawara, Japan
 Hashimoto, Hiroshi, Odawara, Japan
 Okita, Tsutomu, Odawara, Japan
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Kanagawa, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5702821		19971230
APPLICATION INFO.:	US 1995-555447		19951109 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1995-37009	19950224
	JP 1995-222040	19950830
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Resan, Stevan A.	
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn, Macpeak & Seas, PLLC	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1264	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

=> d 19 ibib

L17 ANSWER 19 OF 21 USPATFULL on STN
 ACCESSION NUMBER: 95:92670 USPATFULL
 TITLE: Silver halide photographic light-sensitive material
 INVENTOR(S): Ito, Mineko, Hino, Japan
 Saito, Koichi, Hino, Japan
 Kurachi, Yasuo, Hino, Japan
 PATENT ASSIGNEE(S): Konica Corporation, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5459021		19951017
APPLICATION INFO.:	US 1994-273770		19940712 (8)

NUMBER	DATE

PRIORITY INFORMATION: JP 1993-175558 19930715
 JP 1993-175564 19930715
 JP 1994-56097 19940325
 JP 1994-56099 19940325

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Schilling, Richard L.
 LEGAL REPRESENTATIVE: Bierman, Jordan B. Bierman and Muserlian
 NUMBER OF CLAIMS: 18
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
 LINE COUNT: 1831
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 20 ibib

L17 ANSWER 20 OF 21 USPATFULL on STN
 ACCESSION NUMBER: 93:102832 USPATFULL
 TITLE: Aqueous polyesters, easily bondable polyester films
 formed by coating said aqueous polyesters, and process
 for producing same
 INVENTOR(S): Nishimura, Akihiro, Kobe, Japan
 Miura, Sadayoshi, Yamato, Japan
 Ichihashi, Tetsuo, Matsuyama, Japan
 PATENT ASSIGNEE(S): Teijin Limited, Osaka, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5268420		19931207
APPLICATION INFO.:	US 1992-974125		19921110 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1991-328308	19911118

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Welsh, Maurice J.
 LEGAL REPRESENTATIVE: Wenderoth, Lind & Ponack
 NUMBER OF CLAIMS: 7
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
 LINE COUNT: 597
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 21 ibib

L17 ANSWER 21 OF 21 USPATFULL on STN
 ACCESSION NUMBER: 91:71382 USPATFULL
 TITLE: Polycarbonate polyol, aromatic polycarbonate
polyurethane resin, coating agent, cast film,
 magnetic recording medium
 INVENTOR(S): Kohno, Kenji, Nagaokakyo, Japan
 Nagataki, Yoshiyuki, Osaka, Japan
 Miyata, Kazushi, Osaka, Japan
 Higashi, Hiroshi, Osaka, Japan
 PATENT ASSIGNEE(S): Hitachi Maxell, Ltd., Osaka, Japan (non-U.S.
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5045622		19910903
APPLICATION INFO.:	US 1989-368607		19890620 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1988-154373	19880622
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Kight, III, John	
ASSISTANT EXAMINER:	Sergeant, Rabon	
LEGAL REPRESENTATIVE:	Birch, Stewart, Kolasch & Birch	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
LINE COUNT:	794	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> fil caplus biosis embase medline

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	50.24	569.60

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=> d his

(FILE 'HOME' ENTERED AT 12:00:24 ON 28 JUN 2004)

FILE 'REGISTRY' ENTERED AT 12:00:29 ON 28 JUN 2004

	E HEXANE DIOL NEOPENYL GLYCOL ADIPIC ACID POLYESTER DIOL/CN
	E PIOTHAINE 67-3000 HNA/CN
L1	1 S E4
	E RUCOFLEX S1015-35/CN
	E POLYETHYLENE TEREPHTHALATE POLYOL/CN
L2	1 S E7
	E DIMETHYLOLPROPANOIC ACID/CN
L3	1 S E2
	E FUMARIC ACID/CN
L4	1 S E3
L5	STRUCTURE UPLOADED
L6	0 S L5
L7	11 S L5 FULL

FILE 'USPATFULL' ENTERED AT 12:12:29 ON 28 JUN 2004

L8	2 S L7
----	--------

FILE 'REGISTRY' ENTERED AT 12:14:46 ON 28 JUN 2004

L9	STRUCTURE UPLOADED
L10	0 S L9
L11	11 S L9 FULL
L12	STRUCTURE UPLOADED
L13	17 S L12
L14	343 S L12 FULL

FILE 'USPATFULL' ENTERED AT 12:17:32 ON 28 JUN 2004

L15 42 S L14
L16 21 S L15 AND POLYURETHANE
L17 21 DUP REM L16 (0 DUPLICATES REMOVED)

FILE 'CAPLUS, BIOSIS, EMBASE, MEDLINE' ENTERED AT 12:22:03 ON 28 JUN 2004

=> s l14
L18 357 L14

=> l18 and polyurethane
L18 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l18 and polyurethane
L19 53 L18 AND POLYURETHANE

=> l19 not l16
L19 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l19 not l16
L20 0 L19 NOT L16